(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 2 June 2005 (02.06.2005)

PCT

(10) International Publication Number WO 2005/050998 A1

H04N 7/20 (51) International Patent Classification⁷:

(21) International Application Number:

PCT/KR2004/000895

(22) International Filing Date: 19 April 2004 (19.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10-2003-0083474

24 November 2003 (24.11.2003)

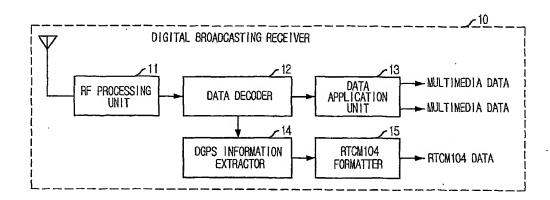
- (71) Applicant (for all designated States except US): ELEC-TRONICS AND TELECOMMUNICATIONS RE-SEARCH INSTITUTE [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejon 305-350 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CHO, Sammo [KR/KR]; #106-1105, Han Maeul Apt., Songgang-dong Yuseong-gu, Daejon 305-756 (KR). KIM, Geon [KR/KR]; #101-1002, Hansol Apt., Songgang-dong, Yuseong-gu,

Daejon 305-758 (KR). LEE, Hyun [KR/KR]; #2-203 Garam villa, 149-13, Sinseong-dong Yuseong-gu, Daejon 305-804 (KR). LEE, Gwang-Soon [KR/KR]; #407-302 Yeolmae Maeul Apt., Jijok-dong Yuseong-gu, Daejon 305-770 (KR). HAHM, Young-Kwon [KR/KR]; #133-101 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejon 305-755 (KR). LEE, Soo-In [KR/KR]; #106-606 Clover Apt., Dunsan-dong, Seo-gu, Daejon 302-772 (KR).

- (74) Agent: SHINSUNG PATENT FIRM; 2-3F, Line Bldg., 823-30, Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: DIGITAL BROADCASTING RECEIVER HAVING DGPS RTCM DATA OUTPUT PORT AND TERMINAL SUP-PORTING DGPS USING THE SAME



(57) Abstract: A digital broadcasting receiver with DGPS RTCM data output port and a terminal for supporting the DGPS service using the same are disclosed. The digital broadcasting receiver having DGPS RTCM data output port, includes: a radio frequency processing unit for receiving digital broadcasting signals and converting the received signals into baseband data; a decoding unit for decoding the baseband data to generate decoded data; a DGPS information extractor unit for extracting a Differential Global Positioning System (DGPS) information from a DGPS data which is one of the decoded data; and a RTCM104 formatting unit for converting the DGPS information into RTCM104 data which is compatible with the DGPS RTCM data input port and outputting the RTCM104 data through the DGPS RTCM data output port.



WO 2005/050998 A1

. EEDIN BRINTEN IN CONTROLORIS CONTROLORIS CONTROLORIS CONTROLORIS CONTROLORIS CONTROLORIS CONTROLORIS CONTROL

GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.